

## CLAIMS

1. A method for producing a pocket coil bag row comprising the steps of:

conveying and sending coil springs having different wire diameters, sent out from at least two or more coil spring producing apparatuses for respectively producing the coil springs having different wire diameters, into a coil chute section having receiving chambers corresponding to the coil springs having different wire diameters at an entrance side of the coil chute section, opening/closing sections in the lower portions of the respective receiving chambers, and a single exit for discharging the coil springs having different wire diameters;

controlling opening/closing of the opening/closing sections so that the coil springs are arranged in a previously set pattern of the coil springs having different wire diameters;

sending out the coil springs to the exit of the coil chute section in an order of the previously set pattern; and

enclosing the coil springs sequentially by a coil spring enclosing apparatus that forms continuous bags and encloses the coil springs individually into the bags.

2. An apparatus for producing a pocket coil bag row comprising:  
at least two or more coil spring producing apparatuses for respectively producing coil springs having different wire diameters; and  
an apparatus for conveying the coil springs having different wire

diameters from the respective coil spring producing apparatuses to a coil chute section, wherein

the coil chute section includes: a plurality of receiving chambers provided at an entrance of the coil chute section, corresponding to the coil springs having different wire diameters sent from the respective coil spring producing apparatuses, opening/closing sections provided in the lower portions of the receiving chambers, and a single exit,

a control device is provided for controlling opening/closing of the opening/closing sections so that the coil springs are arranged in a previously set pattern of the coil springs having different wire diameters, and

the coil springs are sent out to the exit of the coil chute section in an order of the previously set pattern, and enclosed individually into continuous bags while forming the bags.

3. An apparatus for producing a pocket coil bag row as stated in claim 2, further comprising:

a feeding auxiliary apparatus, provided corresponding to each receiving chamber, for sending the coil springs having different wire diameters when the opening/closing sections of the coil chute are open.

4. An apparatus for producing a pocket coil bag row as stated in claim 2 or 3, further comprising:

heat treatment apparatuses for heat treating the coil springs having electrodes provided at both sides of any area of the conveying apparatus for conveying the coil springs having different wire diameters to the coil chute

section.

5. An apparatus for producing a pocket coil bag row as stated in any of claims 2 to 4, further comprising:

a metal sensor for determining whether or not the coil springs having different wire diameters inserted into a folded cloth sheet are inserted.

6. An apparatus for producing a pocket coil bag row as stated in any of claim 2 to 5, further comprising:

a marking apparatus for marking the cloth sheet to identify the type of the coil springs to be enclosed in the bag.

7. An apparatus for producing a pocket coil bag row as stated in any of claims 2 to 6, further comprising:

a feeding apparatus for adjusting feeding speed of the cloth sheet depending on the type of the coil springs inserted into the cloth sheet.

8. A pocket coil sheet produced by the method for producing the pocket coil bag row as stated in claim 1.